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(56) Documents Cited by ISA

US 5392356 A US 5410602 A US 5341427 A US 5301247 A US 5249230 A US 5227613 A US 4876716 A US 5196840 A US 5077790 A

US 4268715 A

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## (54) A method of messaging in a communciation system

(57) A communication system (100) employs a method of messaging between a subscriber unit (105) and an infrastructure communication center (101). A messaging key associated with a subscriber unit reference number is provided (203, 403) to the subscriber unit (105) and to the communication authentication key and/or an identifier for the subscriber unit (105) is then produced (300, 407) by either the subscriber unit (105) or the infrastructure communication center (101). The authentication key and/or the identifier is encrypted (207, 413) with the messaging key and is subsequently communicated (209, 415) between the subscriber unit (105) and the infrastructure communication center (101).

